

Notice of Allowability

Application No.

10/690,322

Examiner

CamLinh Nguyen

Applicant(s)

OWENS ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 4/19/07.
2. ☒ The allowed claim(s) is/are 46-59 and 61-66.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 5/8/07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This Office Action is response to amendment filed 4/19/2007.
2. Applicant's amendments to claims 1 – 45 are acknowledged. Consequently, claims 1 – 38 have been withdrawn; claims 39 – 45 have been cancelled; claims 46 – 66 are newly added.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Caroline Coursey on 5/7/2007.

The application has been amended as follows:

♦ **Please CANCEL claims 1 – 45, and 60.**

♦ **REPLACE claim 57 as follow:**

57. [Currently mended] A method of processing a subjective representation of an address to obtain a preferred representation of the address, said method comprising the steps of:

receiving the subjective representation of the address; parsing said subjective representation of the address into a plurality of discrete artifacts, wherein at least one of said discrete artifacts comprises a street address;

re-formatting the subjective representation of the address according to a set of standardization rules, wherein said re-formatting comprises at least altering punctuation of the subjective representation of the address;

locating one or more candidate artifacts from ~~among said~~ source data received as a sparse matrix linked list by comparing said one discrete artifact to said source data;

selecting a preferred artifact from said one or more candidate artifacts; repeating the step of selecting a preferred artifact from said one or more candidate artifacts to generate a plurality of preferred artifacts;

combining said plurality of preferred artifacts to form a candidate representation of the address;

repeating the step of said combining said plurality of preferred artifacts to form a candidate representation of the address step to generate a plurality of candidate representations of the address;

selecting a preferred representation of the address from said plurality of candidate representations of the address based on the presence of a preferred token; and

communicating said preferred representation of the address to an interface.

♦ **REPLACE claim 58 as follow:**

58. [Currently Amended] A method of processing a subjective representation of an address to obtain a preferred representation of tile address, in an address management system comprising a plurality of relational databases including a first relational database comprising one or more first tables, a second relational database comprising one or more second tables, wherein each of said one or more second tables further comprises a plurality of records comprising source data and a third relational database comprising one or more third tables, said method comprising the steps of;

receiving a subjective representation of the address stored in said first relational database, said subjective representation of the address comprising a plurality of artifacts including a name, street address, city, state, and zip code;

re-formatting the subjective representation of the address according to a set of standardization rules;

arranging said plurality of records in hierarchical order based upon the values of said source data stored in said plurality of records;

transforming one or more of said second tables into a sparse matrix linked list;

locating one or more candidate representations of the address from source data stored in said second relational database by recognizing that a preferred token is present among any of said one or more candidate representations of the address;

selecting a preferred representation of the address from among said one or more candidate representations of the address based on the presence of the preferred token; and communicating said preferred representation of the address from said third relational database to an interface.

Allowable Subject Matter

4. Claims 46 – 59, 61 – 66 are currently pending and renumbered as 1 – 20 respectively.
5. Claims 46 – 59, 61 – 66 are allowed.
6. The following is an examiner's statement of reasons for allowance: in independent claims 46, 57, and 58, a system and method for converting a subjective representation of an address into a preferred representation of the address comprising the teaching of "source data comprising address records as a sparse matrix linked list", taken with the other limitations of the claim, were not disclosed by, would not have been obvious over, nor otherwise fairly disclosed by the prior art of record.
7. The dependent claims, being further limiting, definite and fully enabled by the Specification, are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CamLinh Nguyen whose telephone number is (571) 272 - 4024.

The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on (571) 272 - 4080. The fax phone number for the organization where this application or proceeding is assigned is 571 - 273 - 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nguyen, Cam-Linh

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